

**Shell**

MATERIAL SAFETY DATA SHEET




97002 (1-81)

DPM 530


MSDS NUMBER ► 5,120-4

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SECTION I		NAME	
PRODUCT	► Isopropyl Alcohol		
CHEMICAL/ SYNONYMS	► IPA, Isopropanol, propanol-2		
CHEMICAL FAMILY	► Alcohol		
SHELL CODE	► 31105	C.A.S. NUMBER	► 67-63-0

24 HOUR EMERGENCY ASSISTANCE					
SHELL	713-473-9461		HEALTH	1	
CHEMTREC	800-424-9300			FIRE	3
HAZARD RATING			REACTIVITY	0	
LEAST	0		SLIGHT	1	
MODERATE	2		HIGH	3	EXTREME

SECTION II		INGREDIENTS	
	COMPOSITION	%	TOXICITY DATA
Isopropyl Alcohol		100	Oral LD ₅₀ (rat) = 5.84g/kg Dermal LD ₅₀ (rabbit) = 16.4ml/kg Inhalation LC ₅₀ (rat) = 12,000ppm/8hr



SECTION III		HEALTH INFORMATION	
Liquid is irritating to the eyes.			
Vapors may cause irritation of eyes, nose and throat.			
High vapor concentrations or prolonged breathing of vapors may cause headache, dizziness, nausea, incoordination, drowsiness and unconsciousness.			

SECTION IV		OCCUPATIONAL EXPOSURE LIMITS	
OSHA PEL and ACGIH TLV = 400ppm or 980mg/m ³ TWA (skin) (8-hour workday) ACGIH STEL = 500ppm or 1225mg/m ³			



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SECTION V**EMERGENCY AND FIRST AID PROCEDURES**

INHALATION: Remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.

EYE CONTACT: Flush eyes immediately with large amounts of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and do not reuse until they have been laundered.

INGESTION: Give large amounts of water, then induce vomiting by touching back of throat with finger. Get medical attention.

SECTION VI**PHYSICAL DATA**

BOILING POINT (°F) ▶ 180	MELTING POINT (°F) ▶ -127	VAPOR PRESSURE (mmHg) 33@68°F
SPECIFIC GRAVITY (H ₂ O=1) ▶ 0.79@60/60°F	% VOLATILE BY VOLUME ▶ 100	VAPOR DENSITY (AIR=1) ▶ 2.1
SOLUBILITY IN WATER ▶ complete	EVAPORATION RATE (BUTYL ACETATE=1) ▶ 1.4	

APPEARANCE AND ODOR

Colorless, mobile liquid. Mild odor.

SECTION VII**FIRE AND EXPLOSION HAZARDS**

FLASH POINT AND METHOD USED 53°F TCC	FLAMMABLE LIMITS/% VOLUME IN AIR LOWER 2 UPPER 12
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EXTINGUISHING MEDIADry chemical, "alcohol" foam, CO₂, water spray or fog.**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS**

Do not enter fire area without proper protective equipment including NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Treat as a flammable liquid.



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SECTION VIII**REACTIVITY**STABILITY ▶ ☐ UNSTABLE ☒ STABLEHAZARDOUS POLYMERIZATION ▶ ☐ MAY OCCUR ☒ WILL NOT OCCUR**CONDITIONS AND MATERIALS TO AVOID**

Keep away from heat, sparks and open flames. No smoking.
Reacts with strong oxidizing agents.

Will attack aluminum if the surface oxide film is penetrated (e.g.,
by abrasion or high temperature).

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide can form upon incomplete combustion.

SECTION IX**EMPLOYEE PROTECTION****RESPIRATORY PROTECTION**

Use NIOSH approved respiratory protection equipment as required to
prevent overexposure.

PROTECTIVE CLOTHING

Wear goggles if material can be sprayed or splashed into the eyes. Wear
impervious gloves and appropriate protective clothing to prevent skin
contact.

ADDITIONAL PROTECTIVE MEASURES

Use in well ventilated areas.

SECTION X**ENVIRONMENTAL PROTECTION****SPILL OR LEAK PROCEDURES**

Eliminate all sources of ignition immediately and evacuate the area. Be
prepared for fire.

Wear appropriate protective clothing and respiratory protection equipment
when entering the spill area. Shut off leak if it can be done safely.
Ventilate the area. Dike and pump off large spills into salvage or
storage containers. Take up residue or small spills with absorbent
material such as clay or vermiculite. Scoop up all contaminated soil
and dispose of in same manner as the product. See Section XIII.

WASTE DISPOSAL

Handle waste material in accordance with RCRA requirements. See
Section XIII.

ENVIRONMENTAL HAZARDS

Do not allow product to enter storm or sanitary sewers, lakes, rivers,
streams or public water supplies. Notify local authorities if this happens
or is threatened.



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SECTION XI**SPECIAL PRECAUTIONS**

IPA is a volatile, flammable liquid.

Aluminum containers not recommended for storage.

Keep away from any source of ignition such as heat, sparks and open flame.
Ground all containers when pouring or transferring liquid.

Store in tightly closed containers in a cool, well ventilated area.

Do not eat or smoke in areas where this product is handled, processed or stored. Wash up with soap and water before eating, smoking, or using toilet facilities.

SECTION XII**TRANSPORTATION REQUIREMENTS**

DEPARTMENT
OF
TRANSPORTATION
CLASSIFICATION

☒ FLAMMABLE LIQUID☐ COMBUSTIBLE LIQUID☐ OXIDIZING MATERIAL☐ NON-FLAMMABLE
GAS☐ FLAMMABLE SOLID☐ POISON, CLASS A☐ CORROSIVE MATERIAL☐ NOT HAZARDOUS BY
D.O.T. REGULATIONS☐ FLAMMABLE GAS☐ POISON, CLASS B☐ IRRITATING MATERIAL☐ OTHER—Specify below

D.O.T. PROPER SHIPPING NAME

Isopropanol

OTHER REQUIREMENTS

D.O.T. I.D. Number 1219. Guide Sheet 26.

SECTION XIII**OTHER REGULATORY CONTROLS**

EPA, FDA, OSHA, USDA, CPSC, etc.

EPA - Resource Conservation and Recovery Act (RCRA)

As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as defined in RCRA (40 CFR 261.21). The EPA hazardous waste number is D001.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.


Manager

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
OIL AND CHEMICAL PRODUCTS
P.O. BOX 4320
HOUSTON, TEXAS 77210

DATE PREPARED

January 29, 1981